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AMENDMENTS TO THE CLAIMS

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This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (previously presented) A method for acquiring cardiac information from a patient having a pacer for pacing a heart rhythm, an abnormal EKG, or an abnormal heartbeat, the method comprising:

placing a signal injection device proximate the pacer of the patient and injecting a signal across a skin barrier of the patient toward the pacer;

in response to the signal received at the pacer, pacing the patient's heart in a fixed asynchronous pacing mode;

acquiring cardiac information relating to the patient's fixed asynchronously paced heart; and

acquiring a cardiac image of the patient's fixed asynchronously paced heart.

- 2. (canceled)
- 3. (original) The method of Claim 1, wherein:

the signal is a magnetic signal, a wireless signal, an x-ray signal, a microwave signal, an infrared signal, or any combination of signals comprising at least one of the foregoing; and

the signal is at least one of a fixed signal and a pulsed signal.

4. (original) The method of Claim 1, wherein the signal injection device is a magnetic signal injection device comprising at least one of a fixed magnet and an electromagnet.

- 5. (original) The method of Claim 1, further comprising: in response to the signal received at the pacer, activating a switch at the pacer for pacing the patient in a fixed asynchronous pacing mode.
- 6. (original) The method of Claim 4, wherein the magnetic signal injection device is adapted to produce a magnetic signal having a signal strength at the pacer equal to or greater than about 90 Gauss.
- 7. (original) The method of Claim 6, wherein the magnetic signal injection device produces a magnetic signal having a signal strength at the pacer equal to or greater than about 90 Gauss when placed at a distance equal to or less than about 2 inches from the pacer.
- 8. (original) The method of Claim 4, wherein the magnetic signal injection device has an outside dimension equal to or greater than an outside dimension of the pacer.
- 9. (original) The method of Claim 1, wherein the fixed asynchronous pacing mode includes a ventricular, an atrial, or a dual chamber asynchronous pacing mode.

10. (original) A method for acquiring a cardiac image from a patient having a pacer for pacing a heart rhythm, an abnormal EKG, or an abnormal heartbeat, the method comprising:

receiving a gated electrocardiogram signal having local maxima and minima values and trigger points;

determining for a period of time the time between each trigger point and the local maxima or minima associated therewith;

in response to the trigger point occurring at the associated local maxima or minima, calculating a zero time differential for a corrected trigger for gating;

in response to the trigger point occurring prior to the associated local maxima or minima, calculating a time delay for the corrected trigger;

in response to the trigger point occurring after the associated local maxima or minima, calculating a time advancement for the corrected trigger;

sending the corrected trigger to a cardiac image acquisition device for gating, wherein the gating is substantially synchronized with the local maxima or minima of the gated electrocardiogram signal;

placing a signal injection device proximate the pacer of the patient and injecting a signal across a skin barrier of the patient toward the pacer;

in response to the signal received at the pacer, pacing the patient's heart in a fixed asynchronous pacing mode; and

acquiring a cardiac image of the patient's fixed asynchronously paced heart.

11. (original) The method of Claim 10, wherein the signal injection device is a magnetic signal injection device comprising at least one of a fixed magnet and an electromagnet.

- 12. (original) The method of Claim 11, further comprising:
- in response to the magnetic signal received at the pacer, activating a switch at the pacer for pacing the patient in a fixed asynchronous pacing mode.
- 13. (original) The method of Claim 11, wherein the magnetic signal injection device is adapted to produce a magnetic signal having a signal strength at the pacer equal to or greater than about 90 Gauss when placed at a distance equal to or less than about 2 inches from the pacer.
- 14. (original) The method of Claim 11, wherein the magnetic signal injection device has an outside dimension equal to or greater than an outside dimension of the pacer.
- 15. (original) The method of Claim 10, wherein the fixed asynchronous pacing mode includes a ventricular, an atrial, or a dual chamber asynchronous pacing mode.

16-19. (canceled)

20. (previously presented) A method for acquiring cardiac information from a patient having a pacer for pacing a heart rhythm, an abnormal EKG, or an abnormal heartbeat, the method performed using an apparatus having electrocardiogram-gated acquisition and cardiac imaging capabilities for use with a patient having a pacer, the apparatus comprising an electrocardiograph, a cardiac scanner in signal communication with the electrocardiograph, an interface board in signal communication intermediate the electrocardiograph and the cardiac scanner, and a storage medium, readable by a processing circuit, storing instructions for execution by the processing circuit for performing aspects of the method, the method comprising:

placing a signal injection device proximate the pacer of the patient and injecting a signal across a skin barrier of the patient toward the pacer;

in response to the signal received at the pacer, pacing the patient's heart in a fixed asynchronous pacing mode; and

acquiring cardiac information relating to the patient's fixed asynchronously paced heart; and

acquiring a cardiac image of the patient's fixed asynchronously paced heart.

- 21. (previously presented) The method of Claim 1, wherein the cardiac image comprises a 3D image of the heart of the patient.
 - 22. (canceled)